ELECTRIMOTION INC. 1484 DALE FORD RD. DELAWARE, OH 43015

740.362.0251

EM Timing Controller

Nostalgia Top Fuel Version



Connections	
Inputs :	
2 pin plug (red-black) wires	Controller starts when Start RPM is met.
9-16 volt input	
	Start RPM is programmed by the user.
Purple Wire (Rpm output) To Tach	
Timing Control	
TACH Lin Trig	
Out	
Mounting:	Overall Dims:
10-32 studs—2.500" by 2.000"	6.0 " *4.5" *1.5"

Overview:

The Electrimotion Timing Controller is designed to control Ignition Timing on high performance racing vehicles.

- The Electrimotion Timing Controller allows the users to build an ignition retard curve with 16 (Time and Degree) points and an Idle retard setting.
- The Timing Controller timing sequence is started by revving the motor above the "Start RPM"

Button Functions:



Module Operation:



Main Menu:

By Pressing the Menu up button, you can cycle through the installed modules. Press the enter button to enter the selected menu item.

Main Menu items

- Timing Retard
- Battery Voltage (Displays current battery voltage)

Timing Controller Mode:



- **1.** With the main menu at Timing Retard, press enter.
- 2. The Idle Retard will be displayed for you. (Idle Retard is how much timing is out at idle. Verify with a timing light.)



3. By pressing the channel up and down buttons you can review the Idle Retard, and each of the time/retard points.

- 4. To edit a time, press the F1 button, the screen will change to a blinking time. Blinking indicates that you are in the process of changing a value.
- 5. Now the channel up and down buttons will allow you to change the seconds digit of the time.
- 6. If you would like to change the tenths digit, press F2. If you would like to change the hundredths digit, press the F3 button.
- 7. To save the new time, press enter and the screen will stop blinking.





- 1. To edit a retard value, press the F2 button, the screen will change to a blinking retard value.
- 2. Now the channel up and down buttons will allow you to change the retard value.
- 3. After pressing F2 you will be able to edit the tens digit of the retard value, to change the ones digit, press F3 while in edit mode.
- 4. To save the edited value, press enter and the screen will stop blinking.



Start RPM



- 1. To edit the Start RPM value, press the F2 button, the screen will change to a blinking RPM value.
- 2. Now the channel up and down buttons will allow you to change the Start RPM value.
- 3. After pressing F2 you will be able to edit the hundreds digit of the RPM value, to change the tens digit, press F3 while in edit mode, to change the Thousands digit, press F1.
- 4. To save the edited value, press enter and the screen will stop blinking.

Test Start

- **1.** To test the timing sequence in the pits.
- 2. With the main menu at Timing Retard, press enter.
- 3. Now press the channel down button. The screen will show "Test Start"
- 4. Press the Enter Button and the screen will switch to "Timer Activated" as the timing sequence is started. After 8 seconds the timer will reset.

Shift Curve

- **1.** To shift the entire timing curve up or down.
- 2. With the main menu at Timing Retard, press enter.
- 3. Now press the channel down button two times. The screen will show "Shift Curve"
- 4. Press the F2 button and the screen will show "+0.0°"
- 5. Using the channel up/down button and the F1 and F2 buttons, you can adjust the value to Shift the Curve.
- 6. Press enter when you are done and the entire timing curve will shift up or down based on the value you entered.
- 7. Scroll back through the timing points to verify.

PC Software

Our PC software is located on the SDCARD that comes with the controller.

PC software is also available for download at

http://www.electrimotion.com/Command%20Module%20Page.htm

General Warnings:

IT IS THE RESPONSIBILITY OF THE PERSON INSTALLING ANY CONTROL SYSTEM COMPONENT OR KIT TO DETERMINE THE SUITABILITY OF THE COMPONENT OR KIT FOR THAT PARTICULAR APPLICATION. IF YOU ARE NOT SURE HOW TO SAFELY USE THIS COMPONENT OR KIT, YOU SHOULD NOT INSTALL OR USE IT. DO NOT ASSUME ANYTHING. IMPROPERLY INSTALLED OR MAINTAINED CONTROL SYSTEMS ARE DANGEROUS. IF YOU ARE NOT SURE, GET HELP OR RETURN THE PRODUCT. YOU MAY OBTAIN ADDITIONAL INFORMATION AND TECHNICAL SUPPORT BY CALLING ELECTRIMOTION AT (740) 362-0251, OR VISIT OUR WEB SITE AT WWW.ELECTRIMOTION.COM. USE OF ELECTRIMOTION TECHNICAL SUPPORT DOES NOT GUARANTEE PROPER INSTALLATION. YOU, OR THE PERSON WHO DOES THE INSTALLATION, MUST KNOW HOW TO PROPERLY USE THIS PRODUCT. IT IS NOT POSSIBLE OVER THE PHONE TO UNDERSTAND OR FORESEE ALL THE ISSUES THAT MIGHT ARISE IN YOUR INSTALLATION. LIABILITY ON DEFECTIVE MERCHANDISE OR MERCHANDISE NOT CONFORMING TO MANUFACTURER'S SPECIFICATIONS IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE ITEM. RACING EQUIPMENT MUST BE MAINTAINED AND SHOULD BE CHECKED REGULARLY FOR FATIGUE, DAMAGE, AND WEAR. DO NOT OPERATE ANY VEHICLE ON UNTESTED CONTROL SYSTEMS!

Typical System W/ NOS Timing Controller

